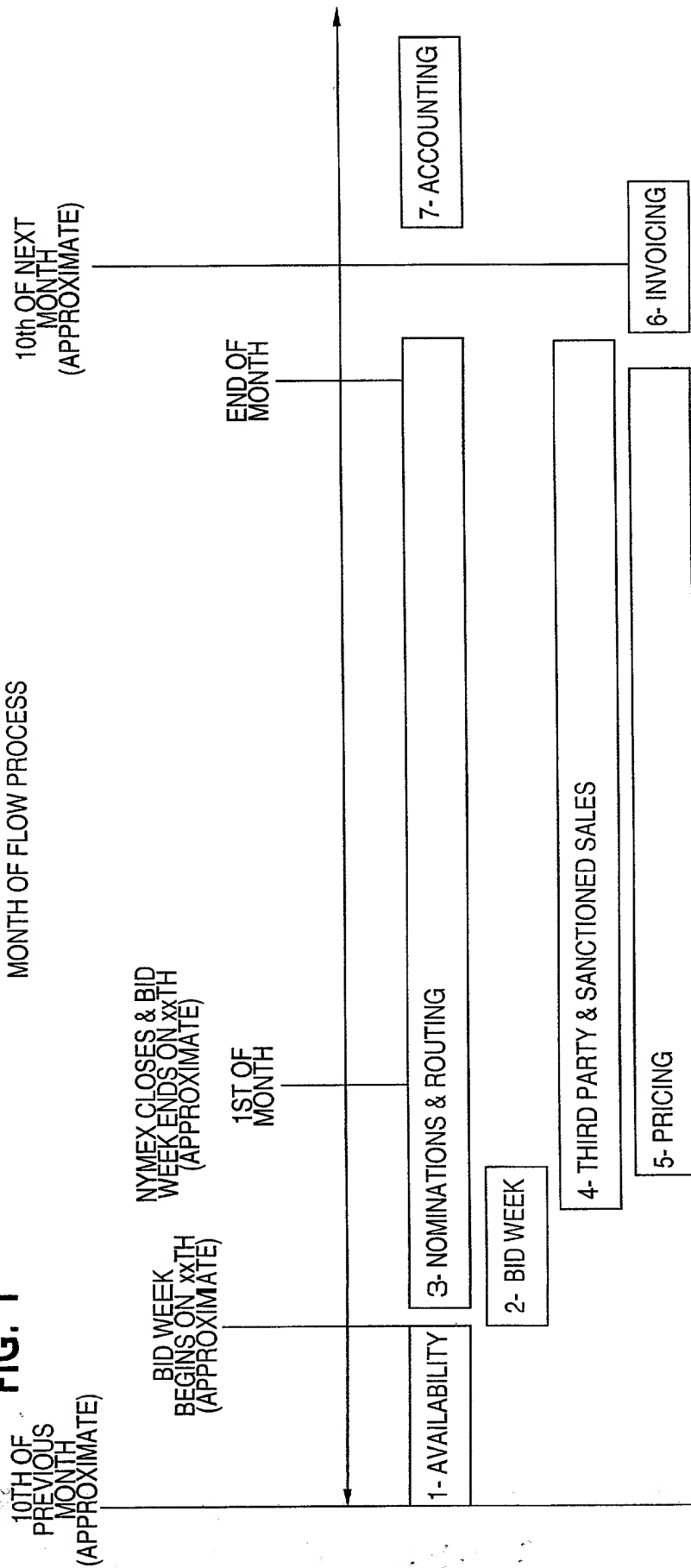
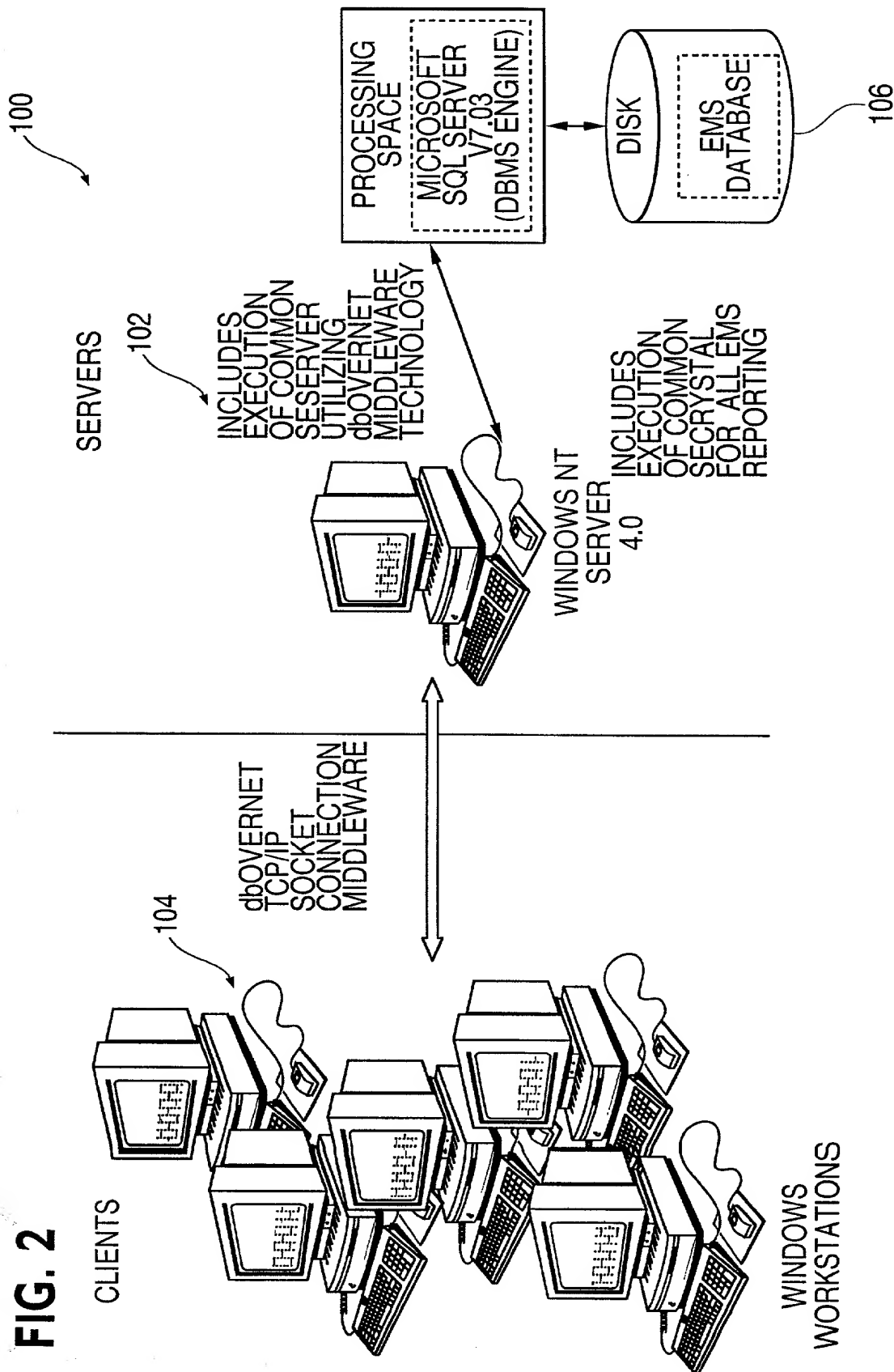


60036060

**FIG. 1**

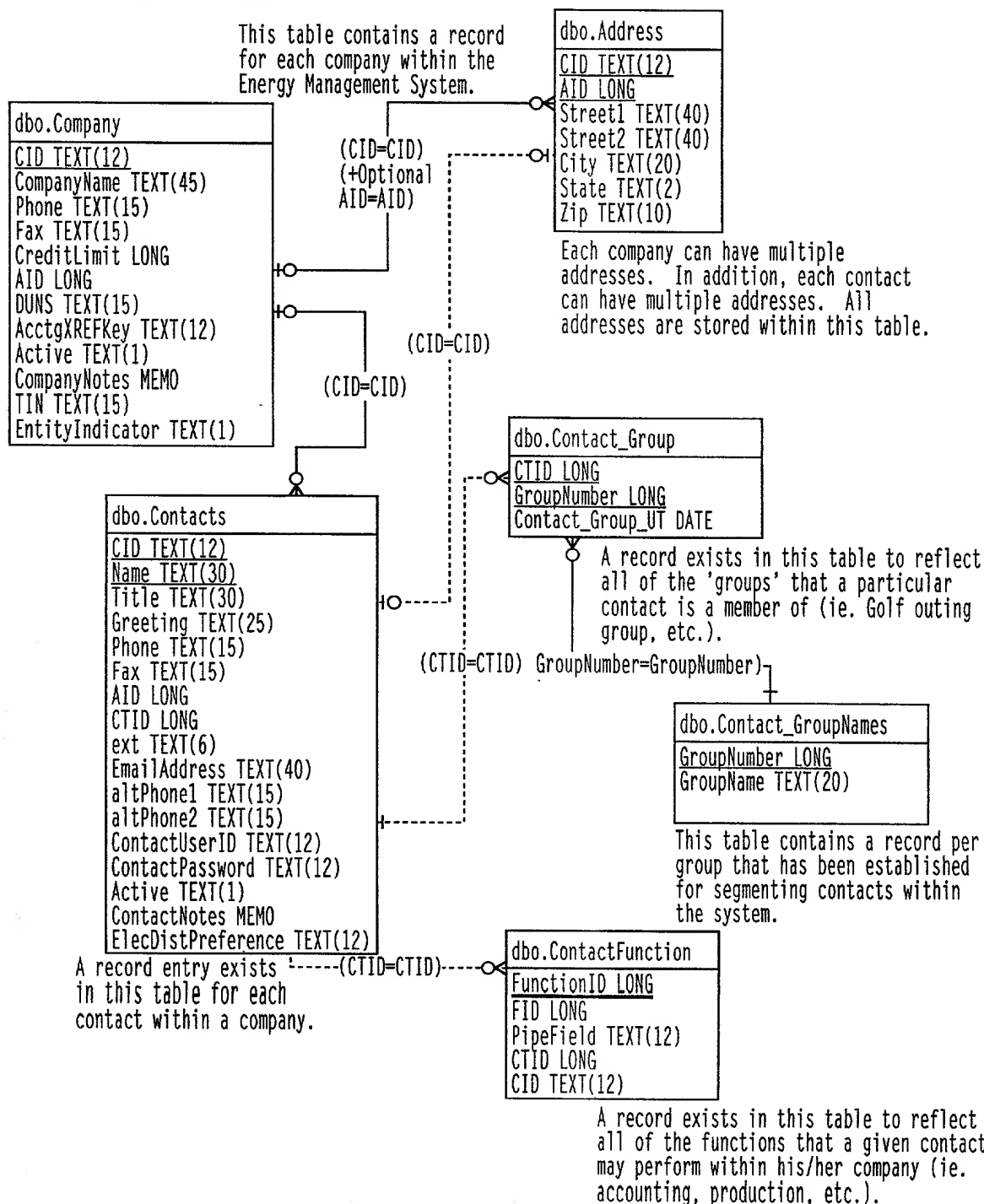


**FIG. 2**



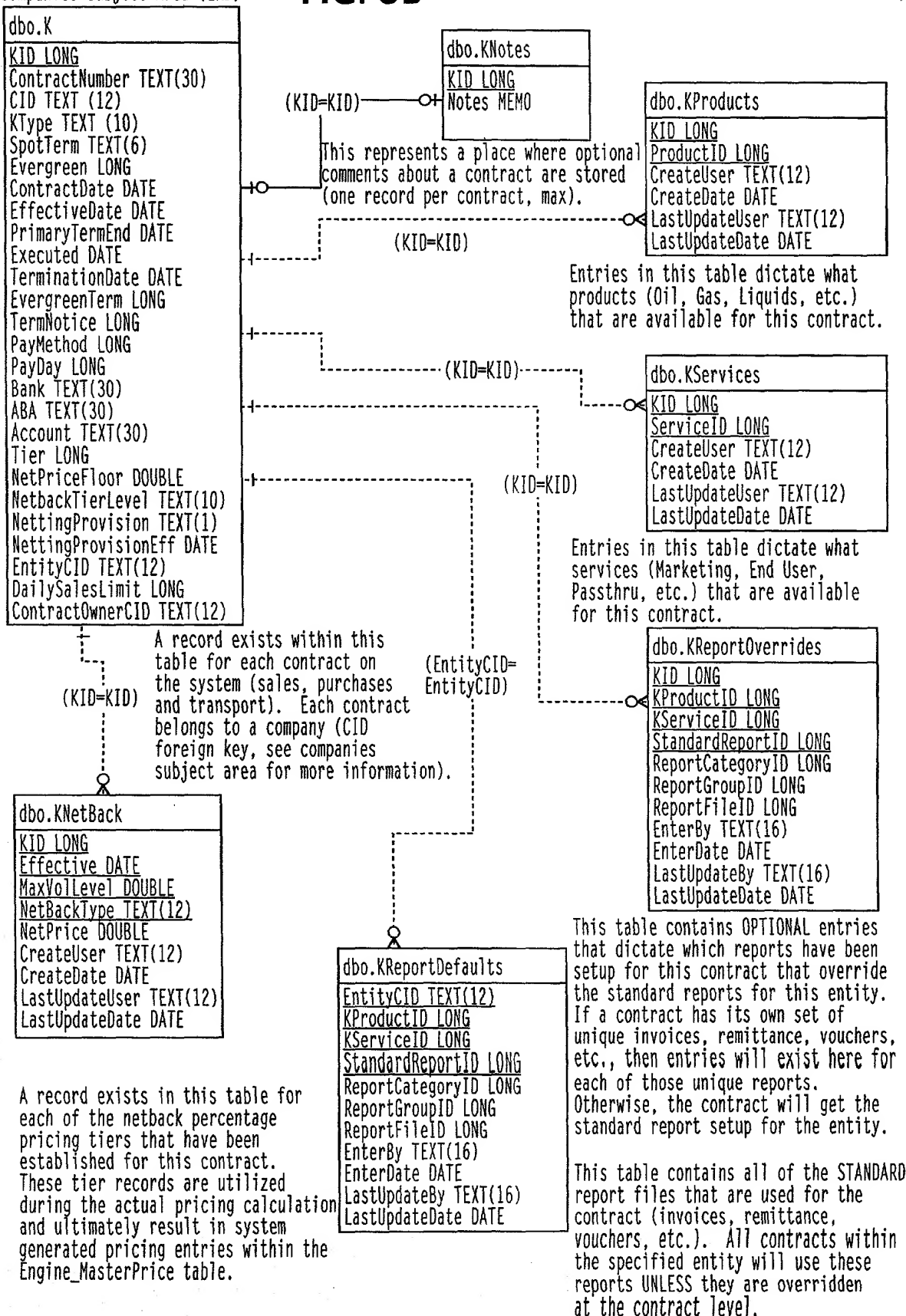
## FIG. 3A

Companies Subject Area (ERD)



Companies Subject Area (ERD)

FIG. 3B



2002-06-05 10:55:50

**FIG. 3C**

Deals Subject Area (ERD) (1 of 2)

dbo.Package
PKG LONG
TheirContact LONG
OurContact LONG
Description TEXT(30)
StartDate DATE
EndDate DATE
Revision LONG
Package_Create DATE
KID LONG
CID TEXT(12)
DealTypeCID LONG
VolumeVolatilitydcID LONG
PricePerioddcID LONG
InterruptibledcID LONG
PackageDBCR LONG
PackageGasMonth DATE
SuppressInvoices TEXT(1)
AccountingDueDate DATE
PackageStatus TEXT(16)
Package_CreateBy TEXT(12)
LastUpdateBy TEXT(12)
LastUpdateDate DATE
FinancialPKG LONG
KProductID LONG
KServiceID LONG
RolloverIndicator TEXT(1)
RolloverPrevPKG LONG
RolloverNextPKG LONG
RolloverSetupDate DATE
RolloverSetupBy TEXT(12)
RolloverVolumes TEXT(1)
RolloverPrices TEXT(1)
RolloverCosts TEXT(1)
VolumeCalculationsSuppressed TEXT(1)
FinancialMID LONG
FinancialNomAmount DOUBLE
FinancialActAmount DOUBLE
RolloverVolumePopMethod TEXT(25)
RolloverTermDate DATE
ParkOrLoan TEXT(1)

(DealTypeCID, VolumeVolatilitydcID,  
 PricePerioddcID, InterruptibledcID)

dbo.rDealClassRules
DealContext LONG
DealTypeCID LONG
VolumeVolatilitydcID LONG
PricePerioddcID LONG
InterruptibledcID LONG
IncludeInWasp TEXT(10)
FBOSourceCode TEXT(12)
FBOCID TEXT(12)
PhysicalSourceCode TEXT(12)

This table contains a single record, per deal on the system. The PKG field is sometimes called PID or VolGroup on other tables (Engine\_Master, Engine, etc.). Each deal on the system is bound to a given month (ie. a deal never extends beyond a gas month). It can be less than a month in duration (see StartDate and EndDate columns).

dbo.PackageCorrespondence
PCID LONG
CorrespondenceBy TEXT(12)
CorrespondenceDate DATE
CorrespondenceDirection TEXT(12)
CorrespondenceLocationID LONG
CorrespondenceFileName TEXT(254)
CorrespondenceSysFileName TEXT(254)
CorrespondenceFileExtension TEXT(30)
CorrespondenceShortDescription TEXT(50)
CorrespondenceDescription MEMO
CorrespondenceType TEXT(20)
CorrespondenceMethod TEXT(12)
EnterBy TEXT(12)
EnterDate DATE
LastUpdateBy TEXT(12)
LastUpdateDate DATE
CorrespondenceStatus TEXT(20)
CorrespondenceReportQueueID LONG

This table contains references to all standard correspondence (electronic copies of reports) for the deal.

dbo.PackageCosts
PCID LONG
PKG LONG
STID LONG
CostLevel TEXT(12)
CostMID LONG
CostBasis TEXT(40)
CostRateOrAmount DOUBLE
CreateUser TEXT(16)
CreateDate DATE
LastUpdateUser TEXT(16)
LastUpdateDate DATE
CostDescription MEMO
CID TEXT(12)
ApplyCosts TEXT(1)
SeparateCost TEXT(1)
IncludeOnVoucher TEXT(1)
ApplyNetback TEXT(1)

This table contains entries for any OPTIONAL other costs that may be associated with a deal.

dbo.PriceDesc
PID LONG
Description MEMO
PriceComment MEMO
PriceDesc_UU TEXT(12)
PriceDesc_UT DATE

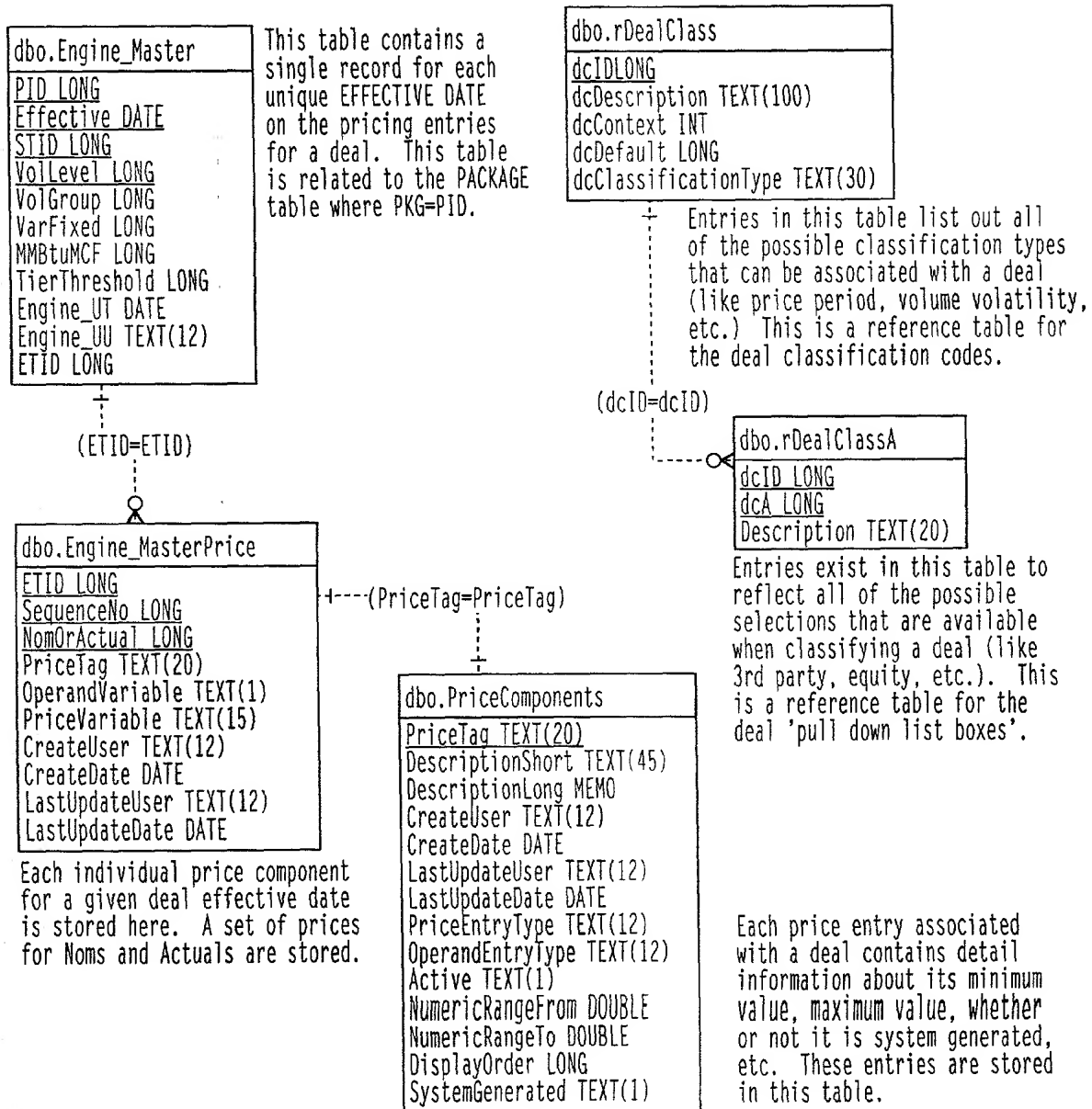
This table a place for textual descriptions and comments about pricing/etc.

This table represents a matrix of all possible combinations of deal classifications. Calculation rules (such as WASP indicators) are stored based on these classification combinations.

20090909 04:00

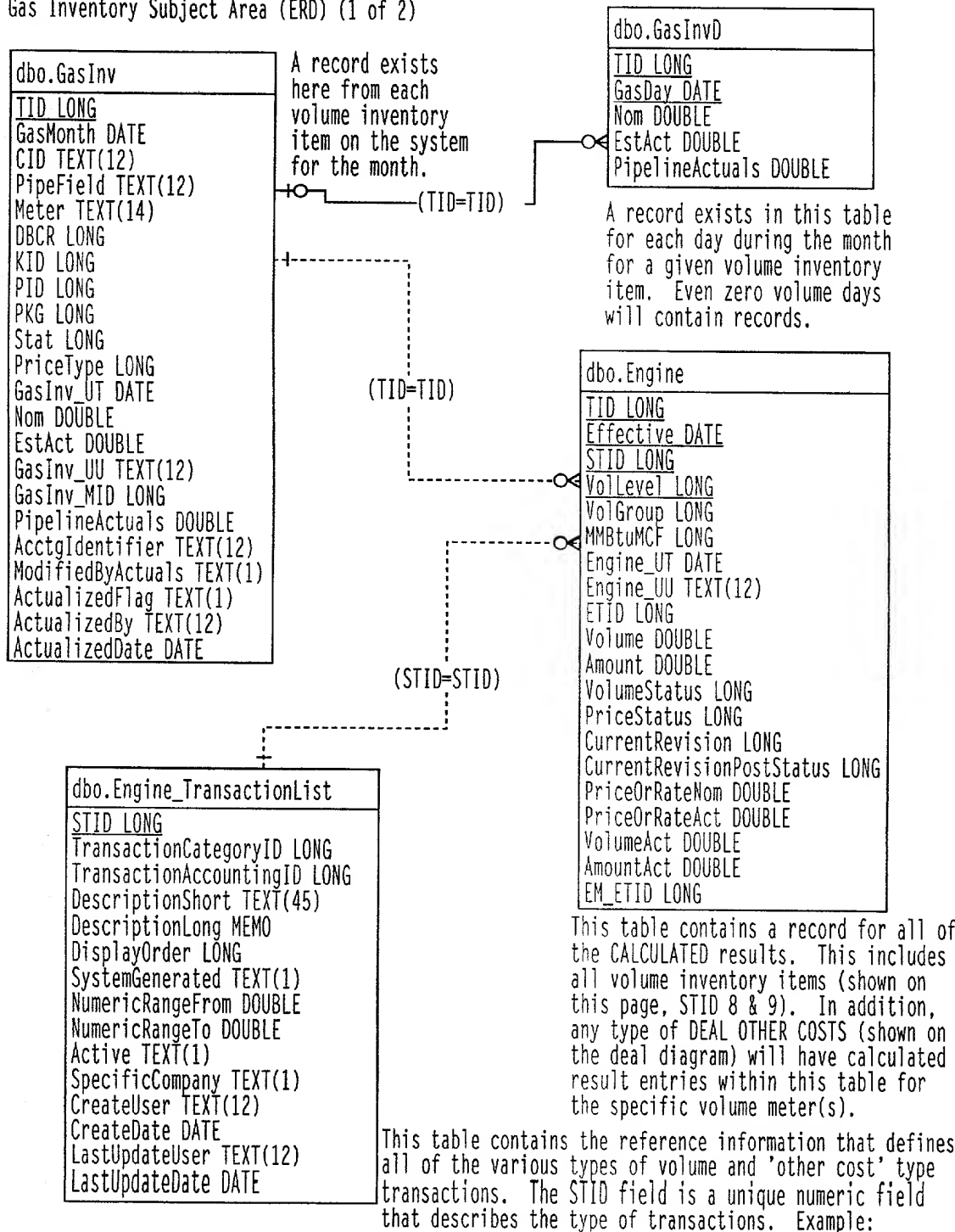
## FIG. 3D

Deals Subject Area (ERD) (2 of 2)



## FIG. 3E

Gas Inventory Subject Area (ERD) (1 of 2)



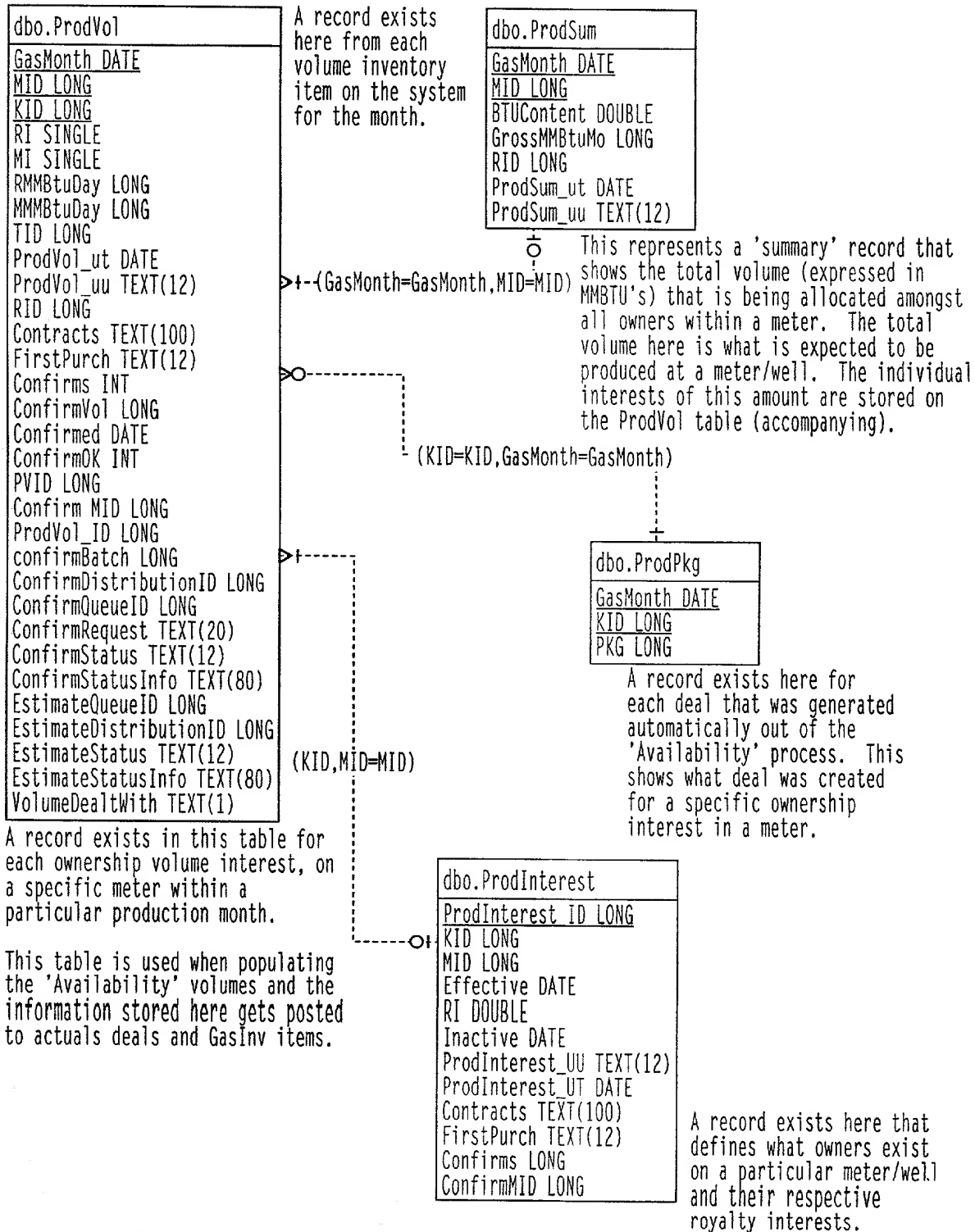
8 = Volume Purchases  
 9 = Volume Sales  
 etc...

Rules for the population and entry of these types of costs are defined here. The 'Other Cost' information setup for a deal also utilizes this information.

200210" 60056860

## FIG. 3F

Gas Inventory Subject Area (ERD) (2 of 2)



## FIG. 3G

Operational Subject Area - 1 of 4 (ERD)

dbo.PrinterDef
PrinterNumber LONG
DisplayName TEXT(80)
ServerPrinterName TEXT(80)
InternalPrinter TEXT(1)

All printers defined in the system are stored in this table.

dbo.ApplicationMessages
ApplicationMessageID LONG
ApplicationMessageDate DATE
ApplicationMessageText TEXT(255)

This table contains application messages that normally only print to the server console (for example when a calculation is running the messages are written here.

dbo.ExceptionCategories
ExceptionType TEXT(12)
ExceptionNo LONG
ExceptionShort TEXT(45)
ExceptionLong MEMO
CreateUser TEXT(12)
CreateDate DATE
LastUpdateUser TEXT(12)
LastUpdateDate DATE
ExceptionOrder LONG

This table contains record entries for all of the possible exception reason categories defined within the system. These reasons are based on the type of exception that occurs ('Deal', 'Pricing', etc.).

(ExceptionType=ExceptionType, ExceptionNo=ExceptionNo)

dbo.LogTable
LogEntry LONG
LogDate Time DATE
LogInfo TEXT(254)

This table is used primarily for debugging purposes and is not utilized by any screen or reporting process.

dbo.ExceptionList
ExceptionListID LONG
ExceptionType TEXT(12)
ExceptionKey LONG
ExceptionDate DATE
ExceptionSequence LONG
ExceptionEvent TEXT(45)
ExceptionNo LONG
ExceptionBy TEXT(12)
ExceptionComments MEMO
CreateUser TEXT(12)
CreateDate DATE
LastUpdateUser TEXT(12)
LastUpdateDate DATE

This table contains the actual exception event entries. The ExceptionKey and sequence columns associate the exception to the entity based on type (ie., PKGID would be the key for ExceptionType = 'DEAL').

dbo.rGasMonth
GasMonth DATE
CurrentStatus TEXT(20)
CurrentSequence LONG
CreateUser TEXT(12)
CreateDate DATE
LastUpdateUser TEXT(12)
LastUpdateDate DATE
LockedUser TEXT(12)
LockedDate DATE

One record exists in this table for every production month in the system. In addition, this table contains the CURRENT status field ('Availability', 'Sales', etc.).

dbo.rGasMonthStatus
GasMonth DATE
CurrentSequence LONG
Status TEXT(20)
CreateUser TEXT(12)
CreateDate DATE
LastUpdateUser TEXT(12)
LastUpdateDate DATE

This table represents an 'audit' table that captures the production month information EVERYTIME the status is changed. This provides for detail analysis on how long production months are left in a particular status.

(GasMonth=GasMonth)

2001 06 28 09 50 00

Operational Subject Area - 2 of 4 (ERD)

CodeType=CodeType)

```

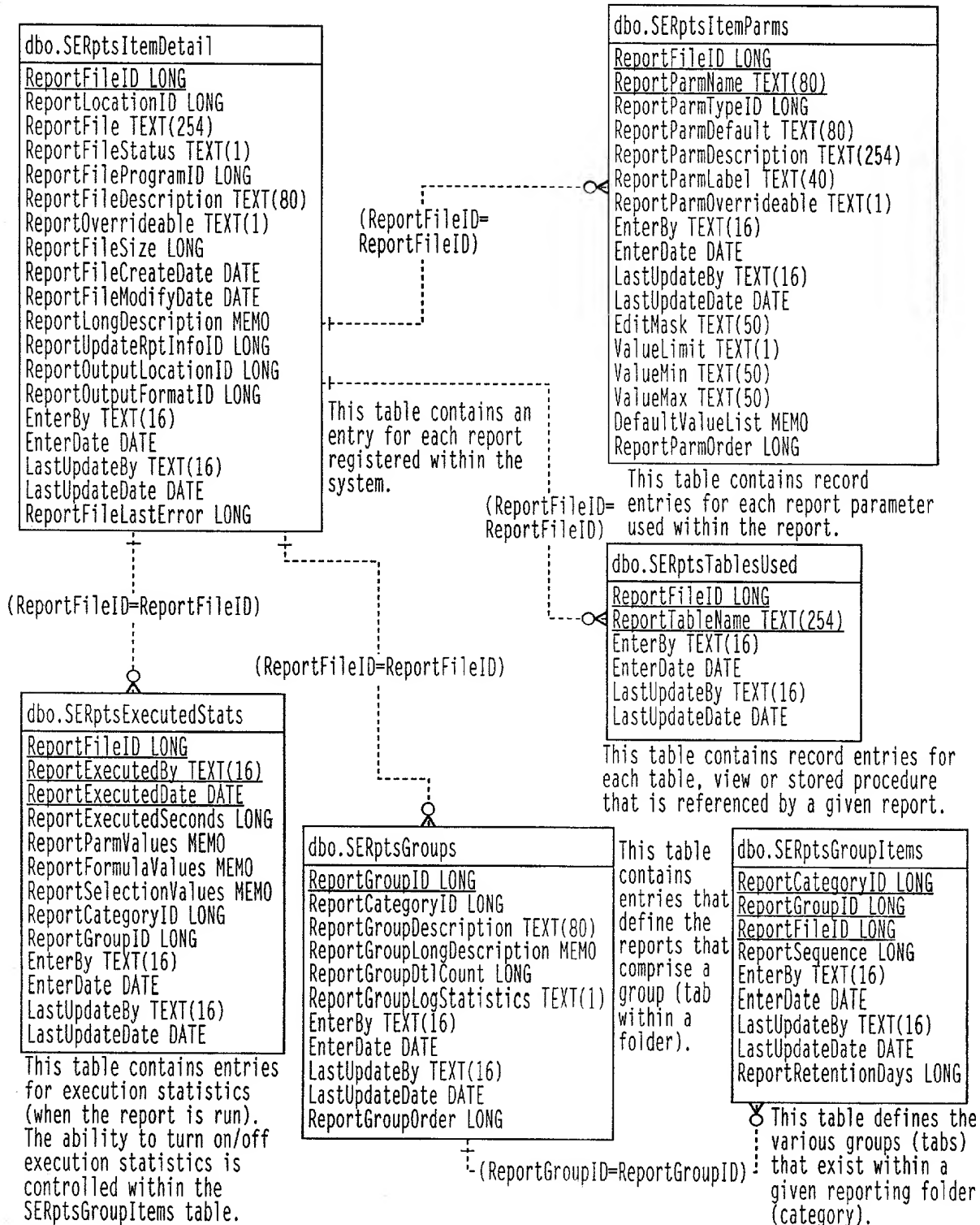
dbo.SEProcessingCodes
ProcessingCodeID LONG
CodeType TEXT(10)
ShortDescription TEXT(50)
Description MEMO
Required TEXT(1)
TypeLimit LONG
ValueMask TEXT(254)
DisplayOrder LONG
EnterBy TEXT(16)
EnterDate DATE
LastUpdateBy TEXT(16)
LastUpdateDate DATE
Description1 MEMO

```

This table contains record entries for all standard system graphic images. Letterhead logos, screen graphic logos, etc.

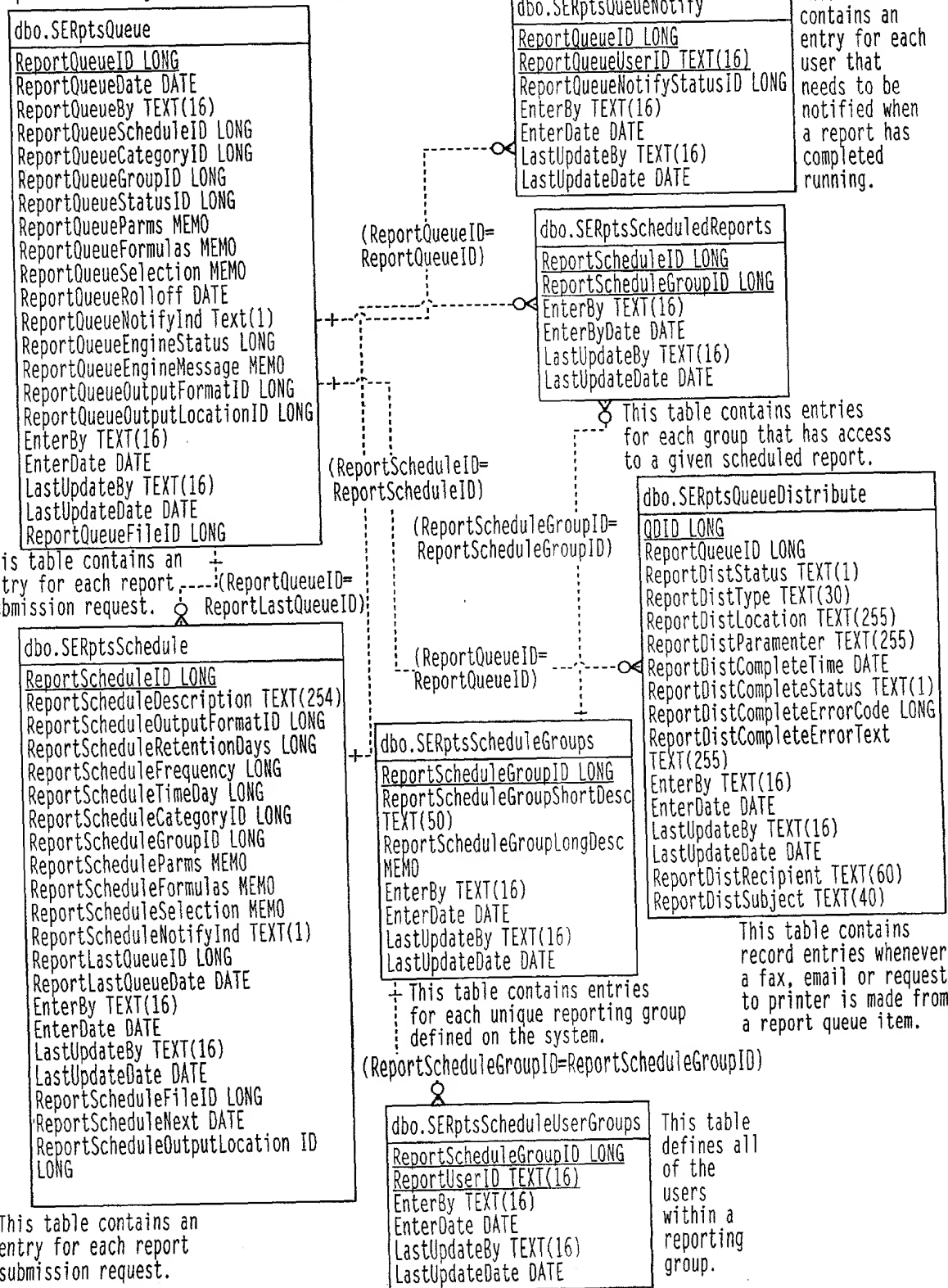
**FIG. 31**

Operational Subject Area - 3 of 4 (ERD)



**FIG. 3J**

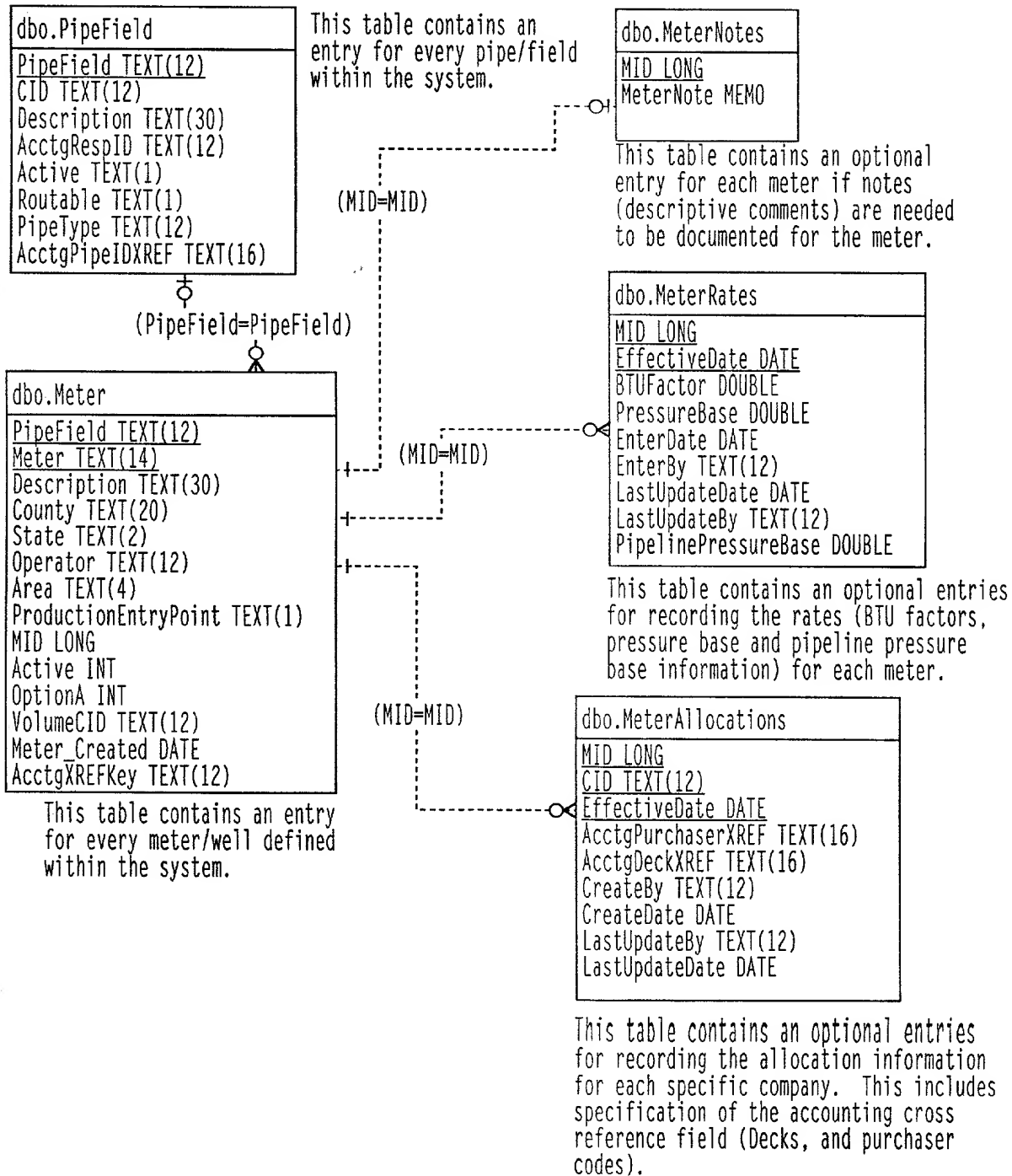
Operational Subject Area - 4 of 4 (ERD)



20010101 00000000

## FIG. 3K

### Pipes & Meters Subject Area (ERD)



200210-6005699

**FIG. 3L**

Pricing Subject Area (ERD)

dbo.IndexRef
<u>IndexID</u> TEXT(12)
IndexDescription TEXT(60)
IndexActive LONG
DailyIndex LONG
DisplayOrder LONG
IndexAreaID LONG

All Energy Management price indices have a single record within this table. The area ID references the SEProcessingCodes table.

dbo.GCIndex
<u>GasMonth</u> DATE
<u>GasDay</u> DATE
<u>IndexID</u> TEXT(12)
IndexVal DOUBLE

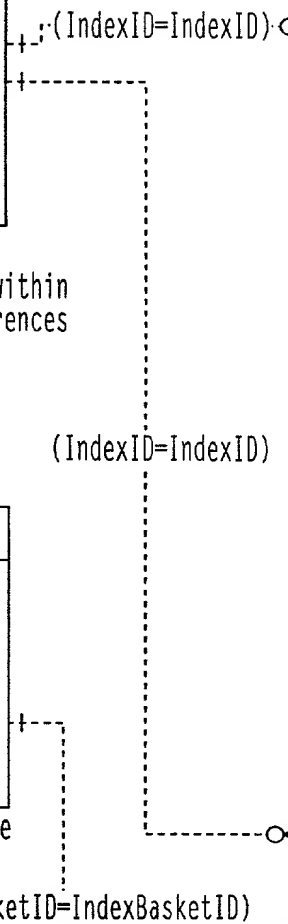
This table contains pricing entries for all indices (monthly only shows as first day of month).

dbo.IndexBaskets
<u>IndexBasketID</u> TEXT(12)
IndexBasketShort TEXT(45)
IndexBasketLong MEMO
CreateUser TEXT(12)
CreateDate DATE
LastUpdateUser TEXT(12)
LastUpdateDate DATE

All of the index baskets are defined within this table.

dbo.IndexBasketLink
<u>IndexBasketID</u> TEXT(12)
<u>IndexID</u> TEXT(12)
CreateUser TEXT(12)
CreateDate DATE
LastUpdateUser TEXT(12)
LastUpdateDate DATE

This table contains entries for each index within an index basket.



20010628 09:00:00

# FIG. 3M

Routing Subject Area (ERD)

dbo.LegRef
RecPipe TEXT(12)
RecMeter TEXT(14)
DelPipe TEXT(12)
DelMeter TEXT(14)
KID LONG
LID LONG
TransportationRate DOUBLE
GatheringRate DOUBLE
TransBasis TEXT(8)
FuelPercent DOUBLE
LegRef_UT DATE
Active DATE
Inactive DATE
LegRef_uu TEXT(12)
PlantVolReduction DOUBLE

This table contains a single record for every possible 'Leg' defined within the system. A leg is the method to move volume between meters/wells. Any rates or costs associated with these legs are stored on this record.

dbo.Leg
GasMonth DATE
LID LONG
RecPipe TEXT(12)
RecMeter TEXT(14)
DelPipe TEXT(12)
DelMeter TEXT(14)
KID LONG
TransportationRate DOUBLE
GatheringRate DOUBLE
TransBasis TEXT(8)
FuelPercent DOUBLE
Leg_UT DATE
Leg_uu TEXT(12)
TransportationRateAct DOUBLE
GatheringRateAct DOUBLE
TransBasisAct TEXT(8)
FuelPercentAct DOUBLE
PlantVolReduction DOUBLE
PlantVolReductionAct DOUBLE

A record is created within this table whenever actual volume is routed within a given month. The Gas/Inv table (pricetype=3) transactions represent purchase/sale legs. For every purchase there is a sale (dual entry). Any costs for volume using the leg are stored on this record.

(LID=LID)  
 (LID=LID, GasMonth=GasMonth)  
 (LID=LID)

dbo.LegDetail
LDID LONG
GasMonth DATE
GasDay DATE
LID LONG
NomOrActuals LONG
Step LONG
PurchasePKG LONG
RecMID LONG
DelMID LONG
Receipt DOUBLE
FuelOrOther DOUBLE
Delivered DOUBLE
Balance DOUBLE
SalesPKG LONG
CreateUser TEXT(12)
CreateDate DATE
LastUpdateUser TEXT(12)
LastUpdateDate DATE
TransportationRate DOUBLE
GatheringRate DOUBLE
TransBasis TEXT(8)
FuelPercent DOUBLE
PlantVolReduction DOUBLE
DailyRateUsed TEXT(1)
LDIDPrev LONG
PurchasePointMID LONG
PurchasePointTID LONG
ManualRateOverride TEXT(1)

Entries in this table represent the actual 'hops' (routes) between the meters for the production month (nom and actual entries).

dbo.LegD
LRDID LONG
LID LONG
EffectiveFrom DATE
EffectiveThru DATE
RecPipe TEXT(12)
RecMeter TEXT(14)
DelPipe TEXT(12)
DelMeter TEXT(14)
KID LONG
TransportationRate DOUBLE
GatheringRate DOUBLE
TransBasis TEXT(8)
FuelPercent DOUBLE
LegD_UT DATE
LegD_UU TEXT(12)
PlantVolReduction DOUBLE
GasMonth DATE
TransportationRateAct DOUBLE
GatheringRateAct DOUBLE
TransBasisAct TEXT(8)
FuelPercentAct DOUBLE
PlantVolReductionAct DOUBLE

This area of the database provides the location for storing a DAILY leg rate for a specific leg in the system. When calculating costs first the daily rates are checked (here). If none found then the monthly rates are used.

dbo.WASResolvedRouting
ResolvedID LONG
GasMonth DATE
DelMID LONG
RecMID LONG
LID LONG
NomOrActual LONG
Receipt DOUBLE
FuelOrOther DOUBLE
Delivered DOUBLE
TransportAmount DOUBLE
GatheringAmount DOUBLE
Amount DOUBLE
IncludeInWASP TEXT(10)
DedicatedPurchasePKG LONG
Price DOUBLE
ResolvedReceipt DOUBLE
ResolvedIndicator TEXT(1)
ResolvedType TEXT(1)
ResolvedDelivered DOUBLE
EntityCID TEXT(12)
KProductID LONG
KServiceID LONG
ResolvedReceiptAmt DOUBLE
ResolvedDeliveredAmt DOUBLE

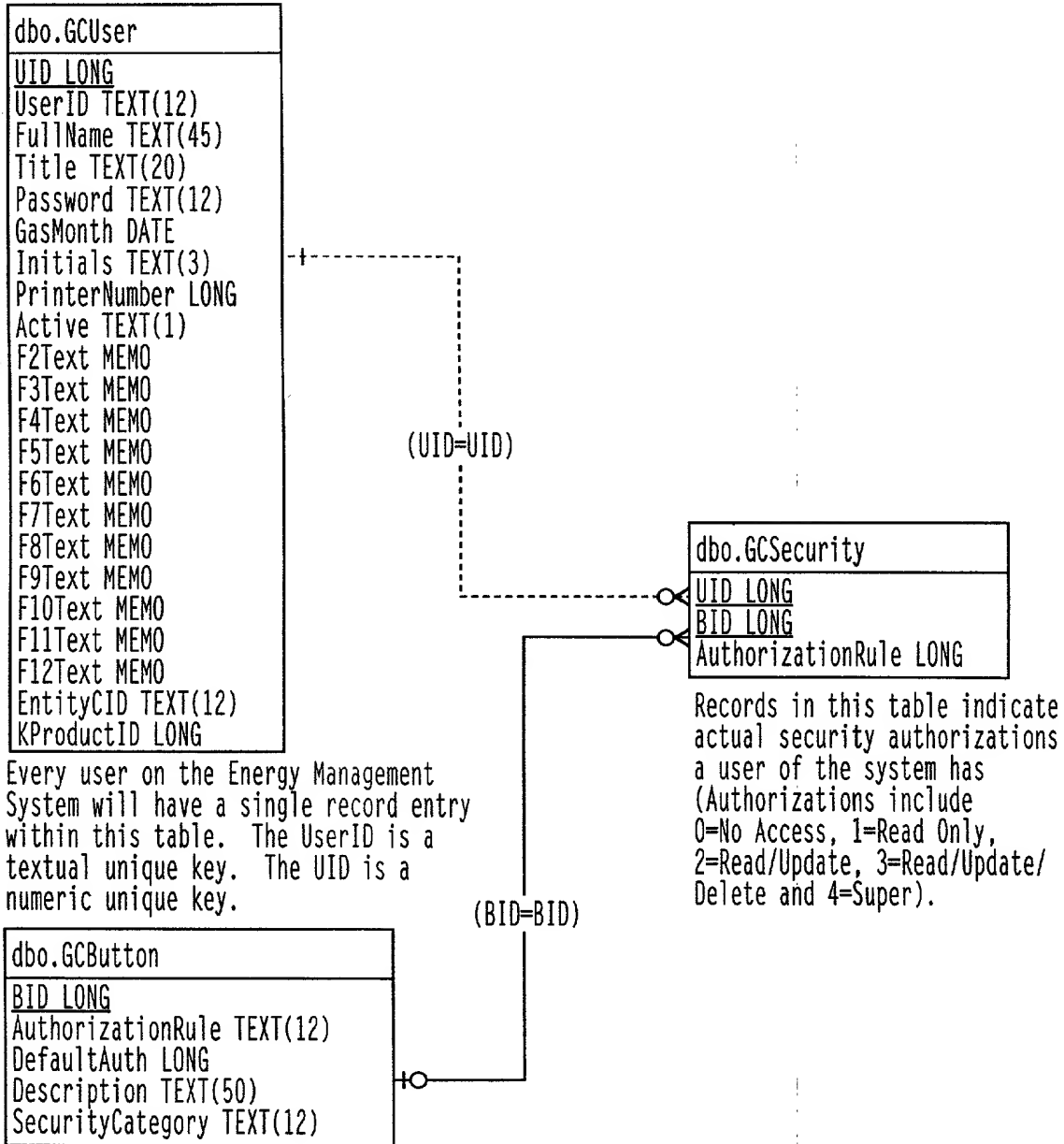
This table holds the detail results of the WASP calculations ('None', 'Dedicated' and 'Common' pool totals).

(LID=LID, GasMonth=GasMonth)

200201060956860

## FIG. 3N

### Security Subject Area (ERD)



2002-10-10 16:00:00

**FIG. 4A**

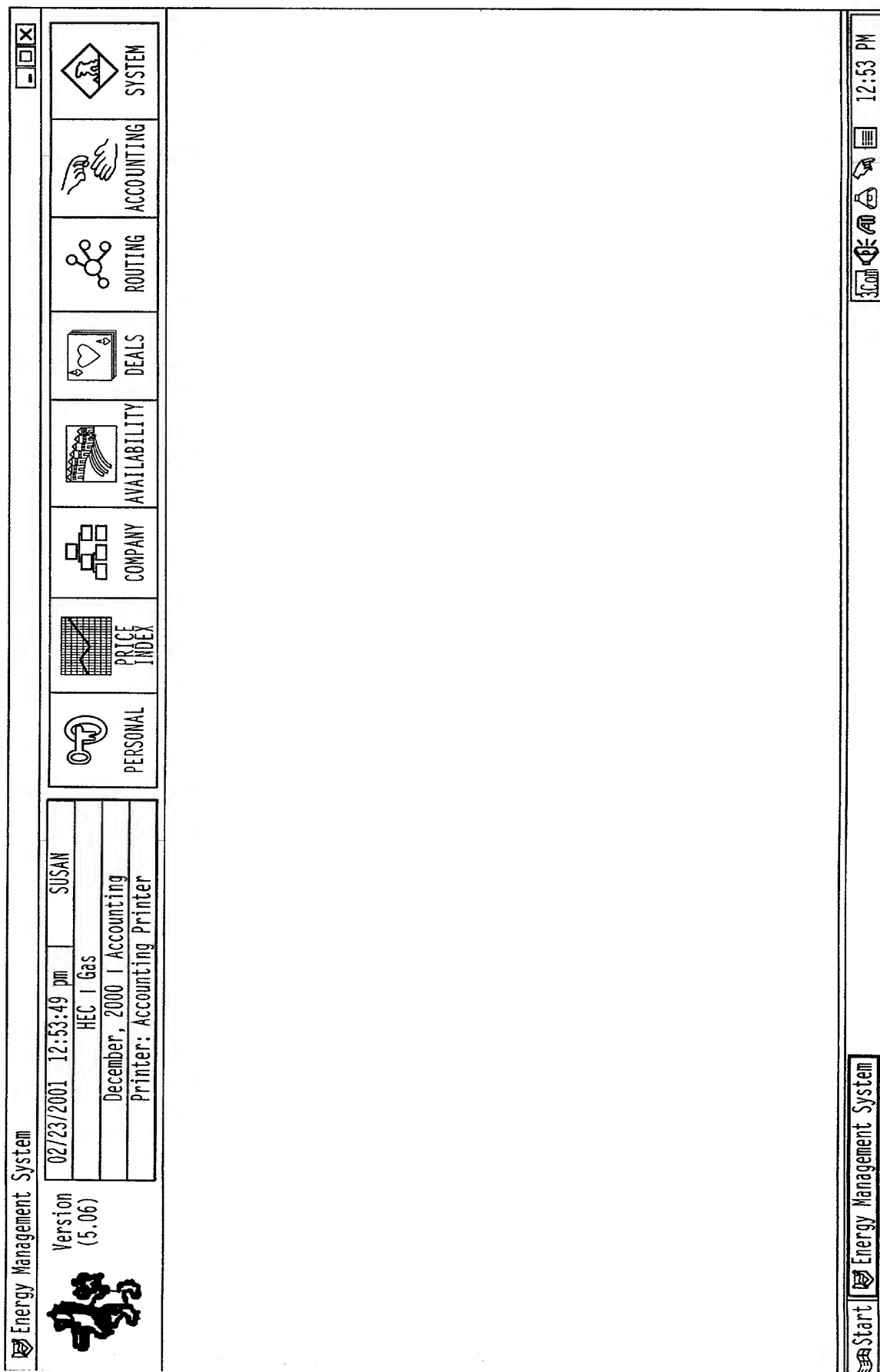


FIG. 4B


Energy Management System

02/23/2001 12:54:37 pm SUSAN

HEC I Gas

December, 2000 I Accounting

Printer: Accounting Printer



Version (5.06)

PERSONAL

PRICE INDEX

COMPANY

AVAILABILITY


DEALS

ROUTING

ACCOUNTING

SYSTEM

User Profile Detail - (Change)



General

F2 Key F3 Key F4 Key F5 Key F6 Key F7 Key F8 Key F9 Key

ID: SUSAN

Full Name: Susan Sims

Title: Dir. of Client Svcs

Password: \*\*\*\*\*

Month: December / 2000

Entity: HEC

Product: Gas

☒ Active?

Initials: SS

Printer Number: Accounting Printer

Internal User ID: 2448

OK

Help

Cancel

Start

Energy Management...

12:54 PM

FIG. 4C

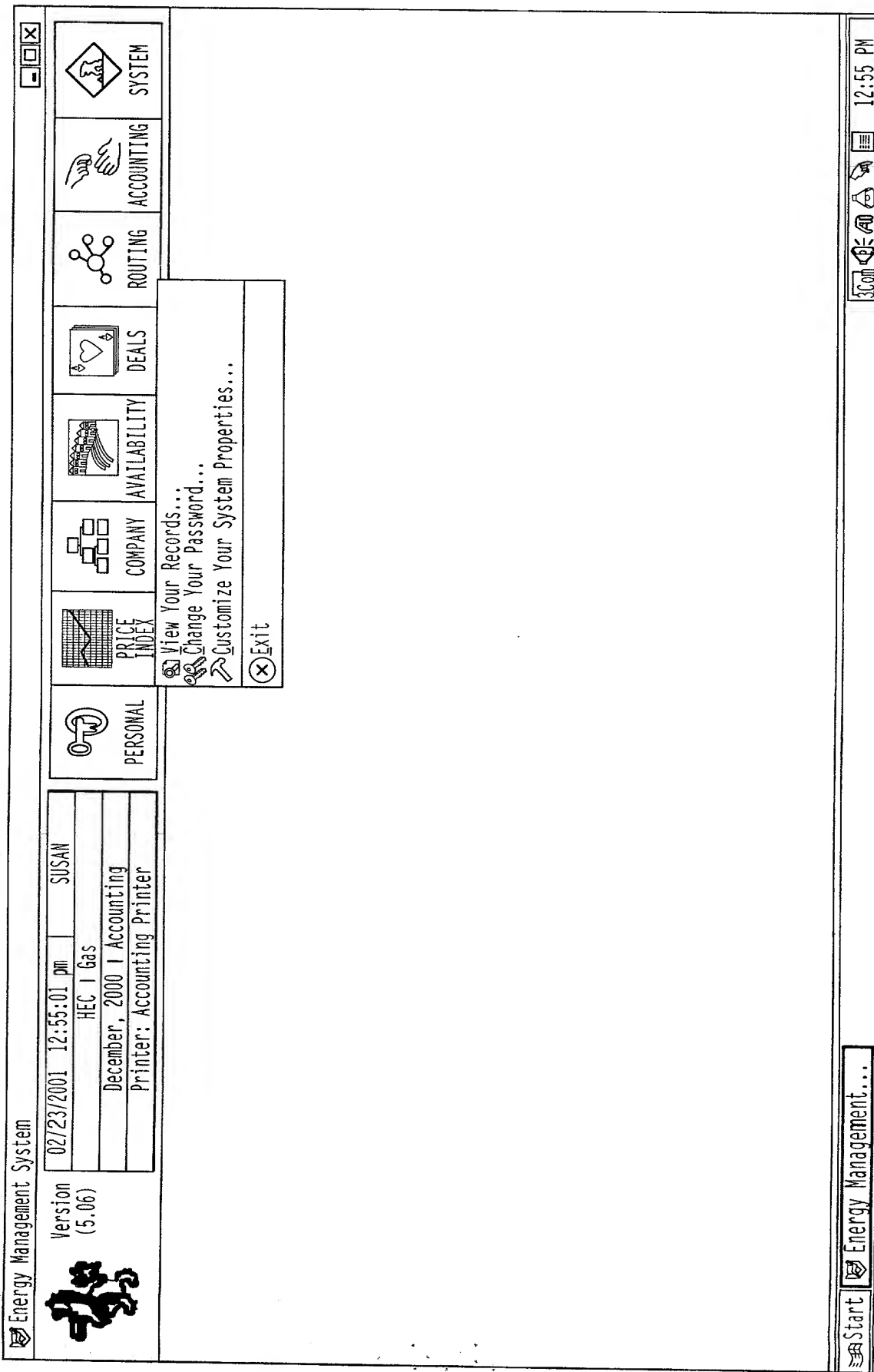


FIG. 4D

Energy Management System

Report Viewer

Reports Submitted by You

Reports Submitted by the Schedule...

Report Name	Submit Date	Completion Status	Rolloff Date	Output Format	Error Code
Purchase and Sales By Company	02/23/2001 12:50:50 PM	Completed	03/02/2001 12:50:50 PM	Acrobat PI	0
Deals By Business Partner	02/23/2001 12:48:52 PM	Completed	03/02/2001 12:48:52 PM	Acrobat PI	0
Supply Volumes By Supplier	02/23/2001 10:56:26 AM	Completed	03/02/2001 10:56:26 AM	Acrobat PI	0
Actualization Progress	02/23/2001 10:02:18 AM	Completed	03/02/2001 10:02:18 AM	Acrobat PI	0
Vouchers (DRAFT)	02/20/2001 03:19:53 PM	Completed	02/27/2001 03:19:53 PM	Acrobat PI	0
Vouchers (DRAFT)	02/20/2001 03:19:28 PM	Completed	02/27/2001 03:19:28 PM	Acrobat PI	0
Margin Report (By WASP Pool)	02/19/2001 01:01:56 PM	Completed	02/26/2001 01:01:56 PM	Acrobat PI	0
Margin Report (By Pipe/Field)	02/19/2001 01:01:46 PM	Completed	02/26/2001 01:01:46 PM	Acrobat PI	0
Sales Deals By Pipe	02/19/2001 10:30:35 AM	Completed	02/26/2001 10:30:35 AM	Acrobat PI	0
Deals By Business Partner	02/17/2001 02:57:05 PM	Completed	02/24/2001 02:57:05 PM	Acrobat PI	0
Sales Deals By Pipe	02/17/2001 02:53:15 PM	Completed	02/24/2001 02:53:15 PM	Acrobat PI	0
Remittance DRAFT Detail	02/17/2001 02:52:40 PM	Completed	02/24/2001 02:52:40 PM	Acrobat PI	0
Actualization Progress	02/17/2001 01:13:53 PM	Completed	02/24/2001 01:13:53 PM	Acrobat PI	0
WASP Deal Detail	02/17/2001 12:32:46 PM	Completed	02/24/2001 12:32:46 PM	Acrobat PI	0
Routing Details (Ultimate Sale)	02/17/2001 12:25:32 PM	Completed	02/24/2001 12:25:32 PM	Acrobat PI	0
WASP Deal Detail	02/17/2001 11:38:21 AM	Completed	02/24/2001 11:38:21 AM	Acrobat PI	0
WASP Deal Detail	02/17/2001 11:38:11 AM	Completed	02/24/2001 11:38:11 AM	Acrobat PI	0
WASP Deal Detail	02/17/2001 11:28:50 AM	Completed	02/24/2001 11:28:50 AM	Acrobat PI	0

View...

Print...

Email...

Export...

Delete

Help...

Exit

Records: 18

Refresh

More

Lookup...

Get Acrobat Reader

Auto Refresh? (this will refresh screen automatically every 10 seconds)

Submit Date (DESC)

Start

Energy Management...

12:55 PM

FIG. 4G

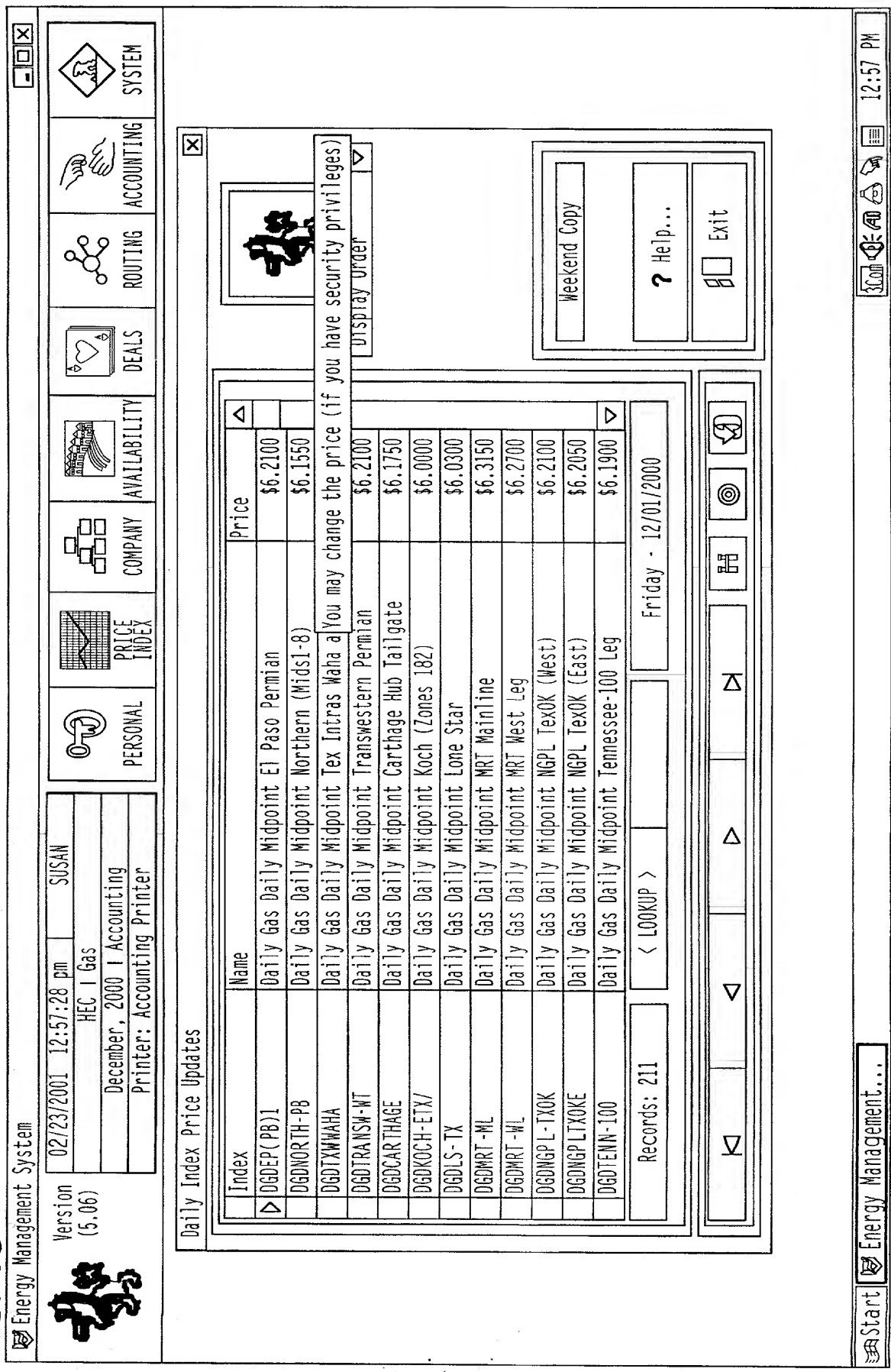


FIG. 4E

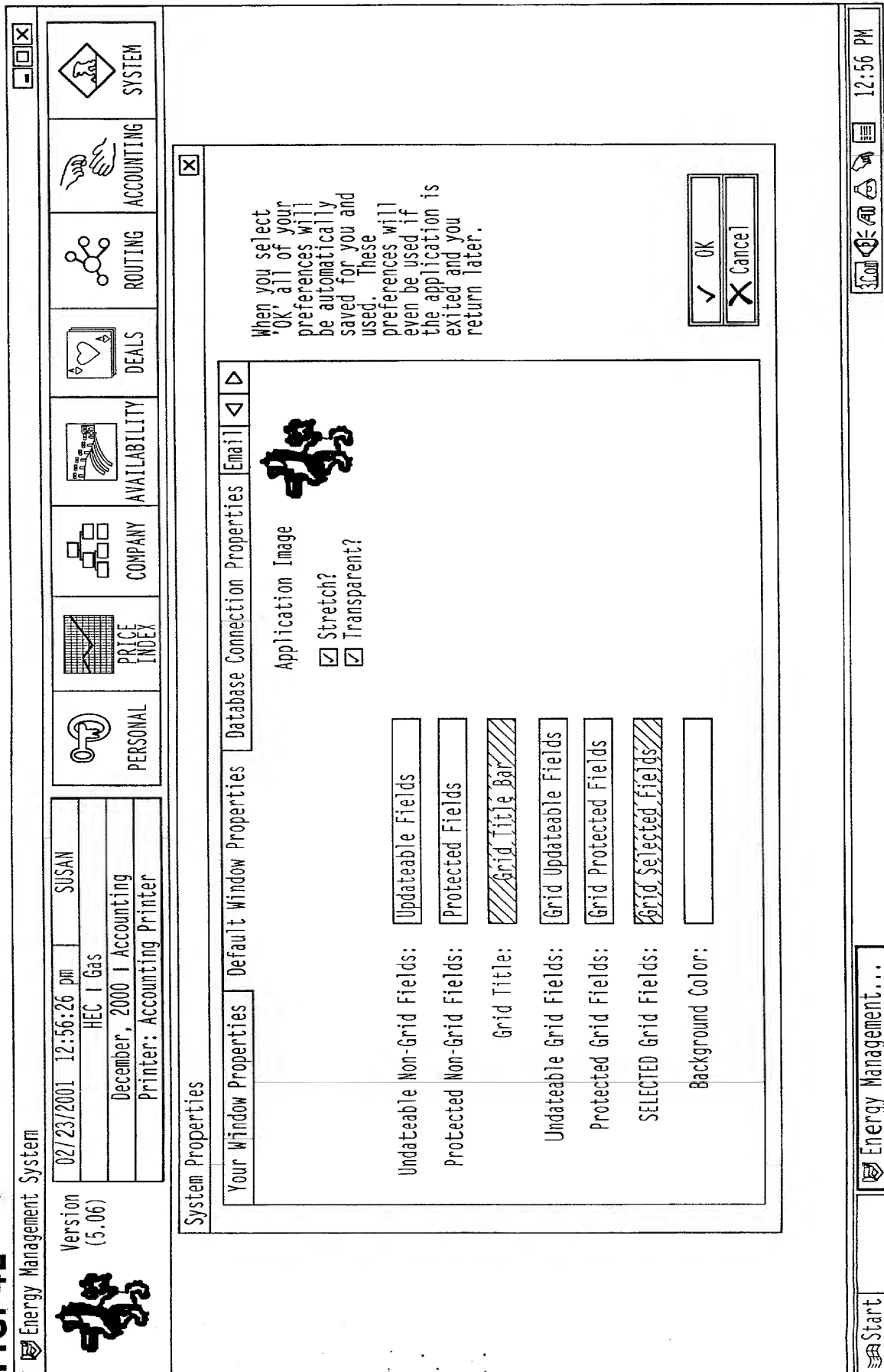
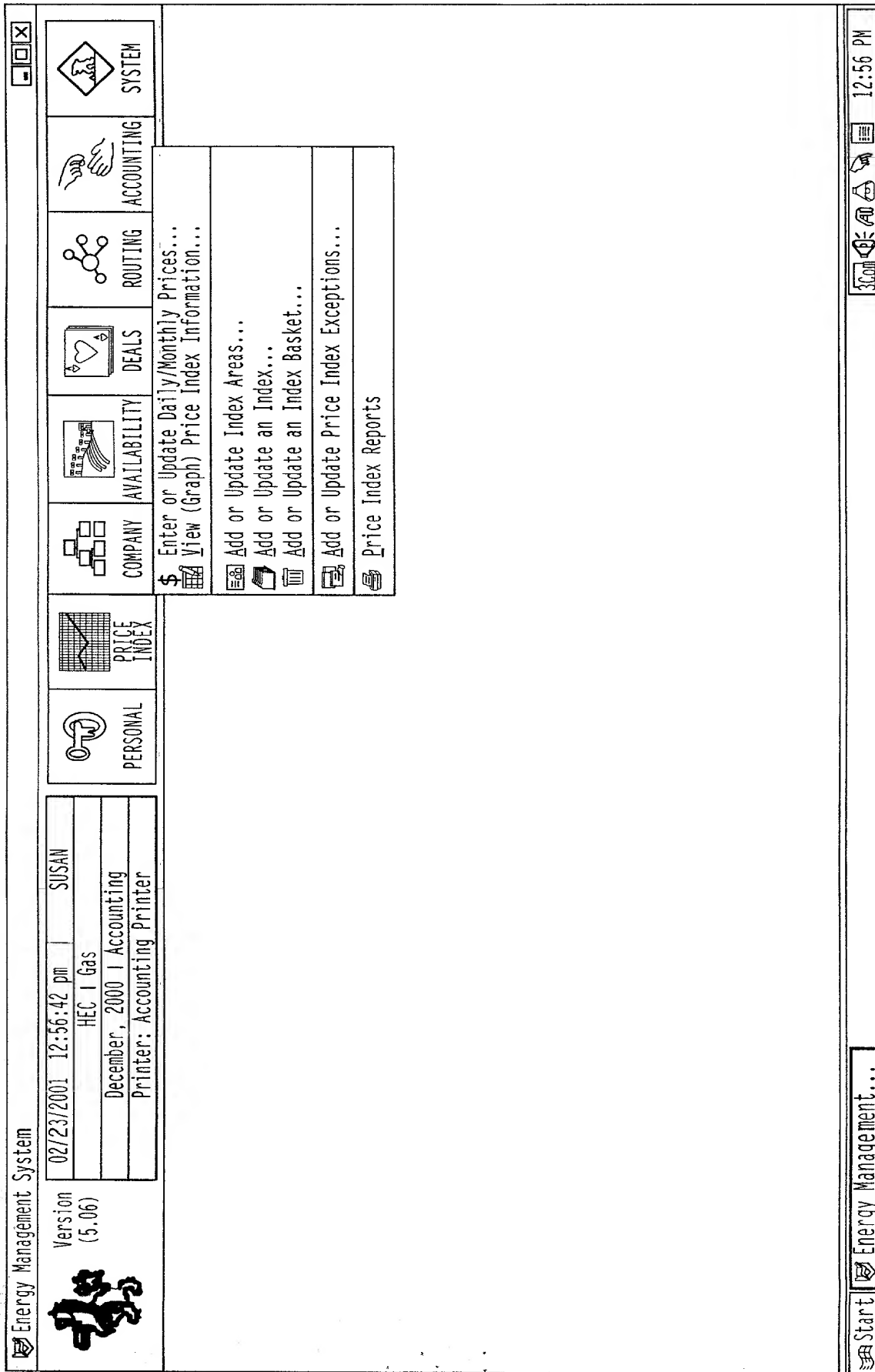


FIG. 4F



**FIG. 4H**

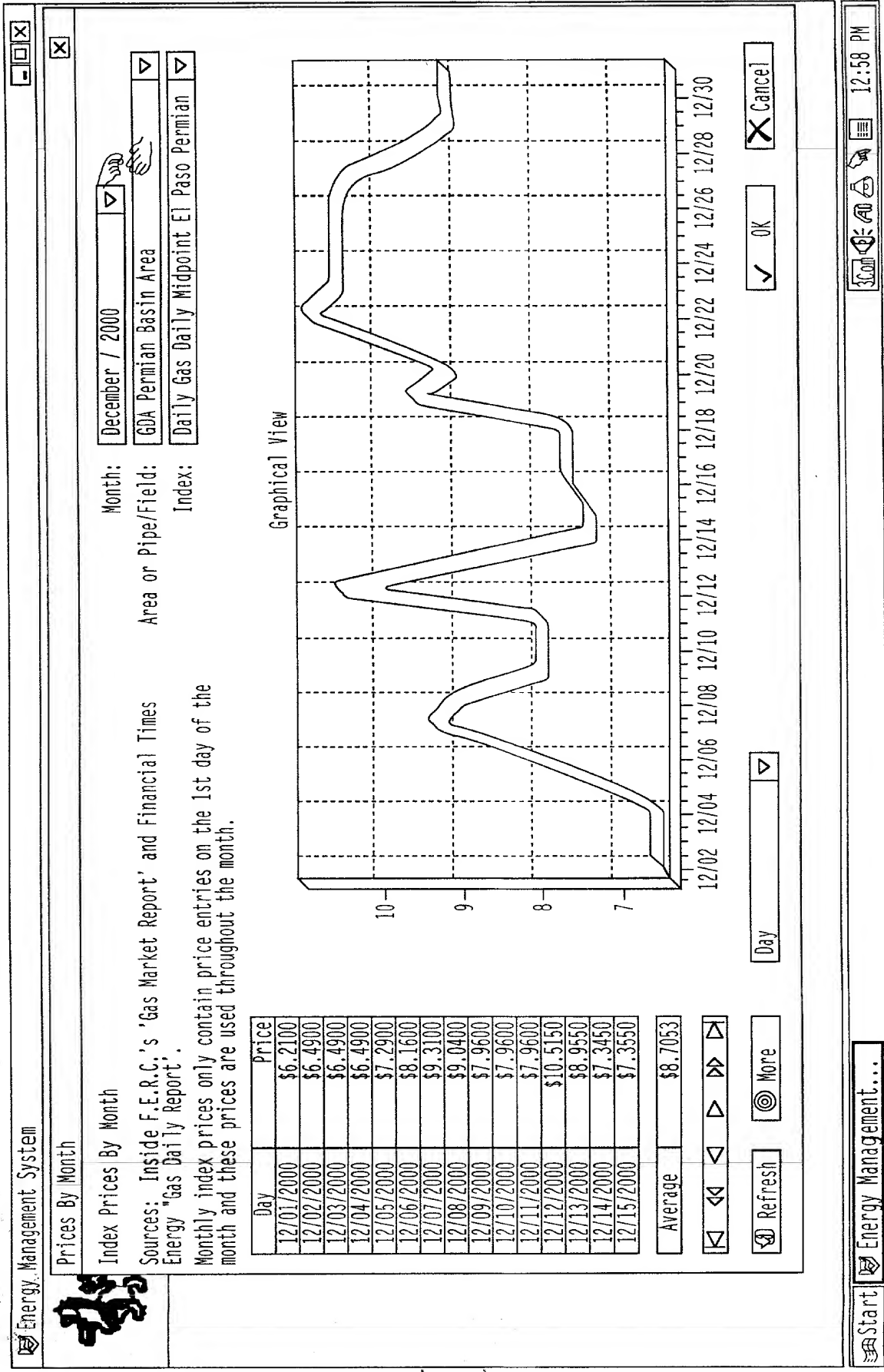


FIG. 41

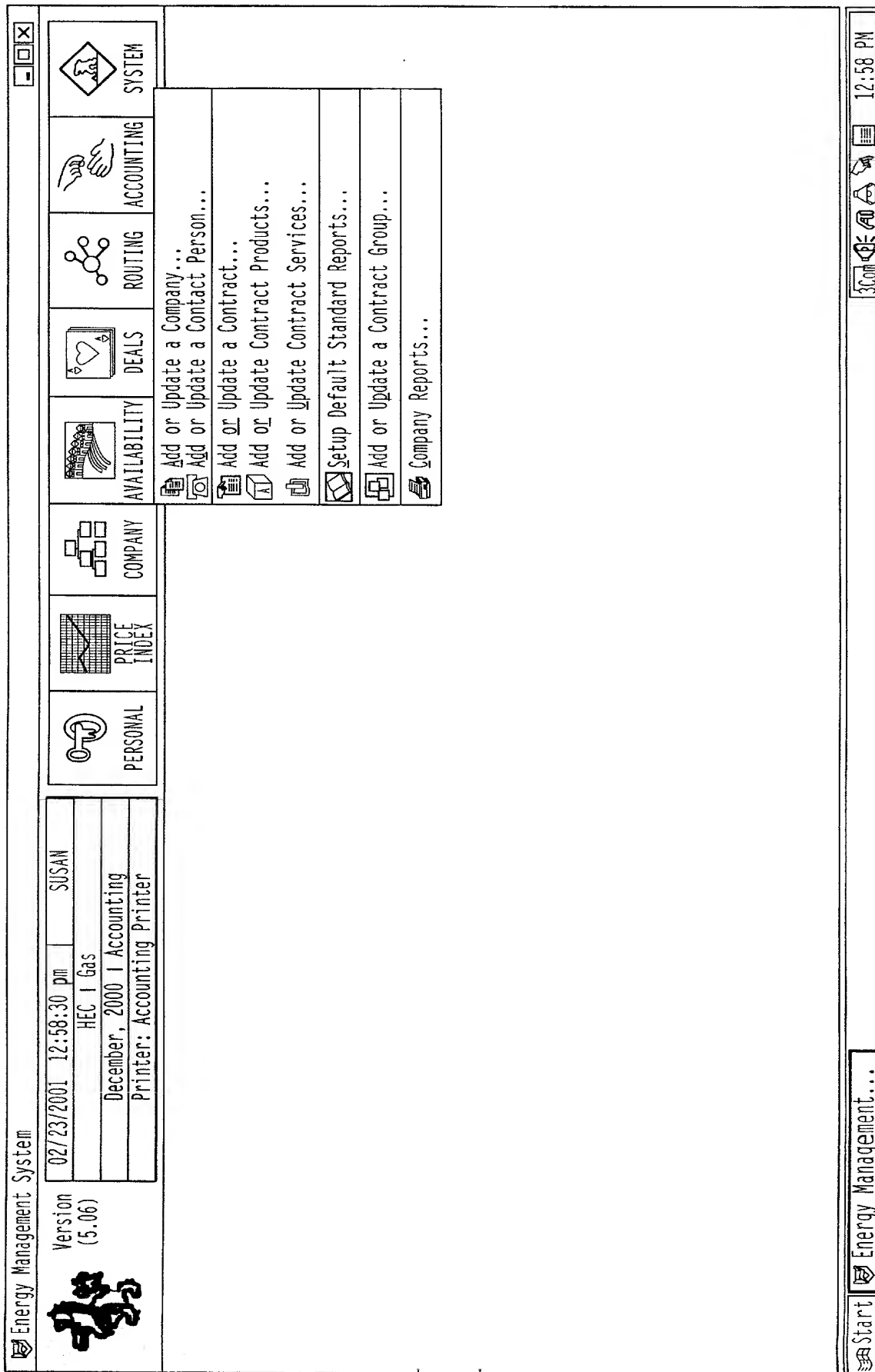



FIG. 4J

Energy Management System			
	Version (5.06)	02/23/2001 12:58:58 pm	SUSAN
	HEC I Gas		
	December, 2000 I Accounting		
	Printer: Accounting Printer		
<div><div>PERSONAL</div><div>PRICE INDEX</div><div>COMPANY</div><div>AVAILABILITY</div><div>DEALS</div><div>ROUTING</div><div>ACCOUNTING</div><div>SYSTEM</div></div>			
<div><div>Enter Production Volumes...</div><div>Produce Production Confirms...</div><div>Availability Reports...</div></div>			
<div><div>Start</div><div>Energy Management...</div><div>12:58 PM</div></div>			

60036560

FIG. 4K

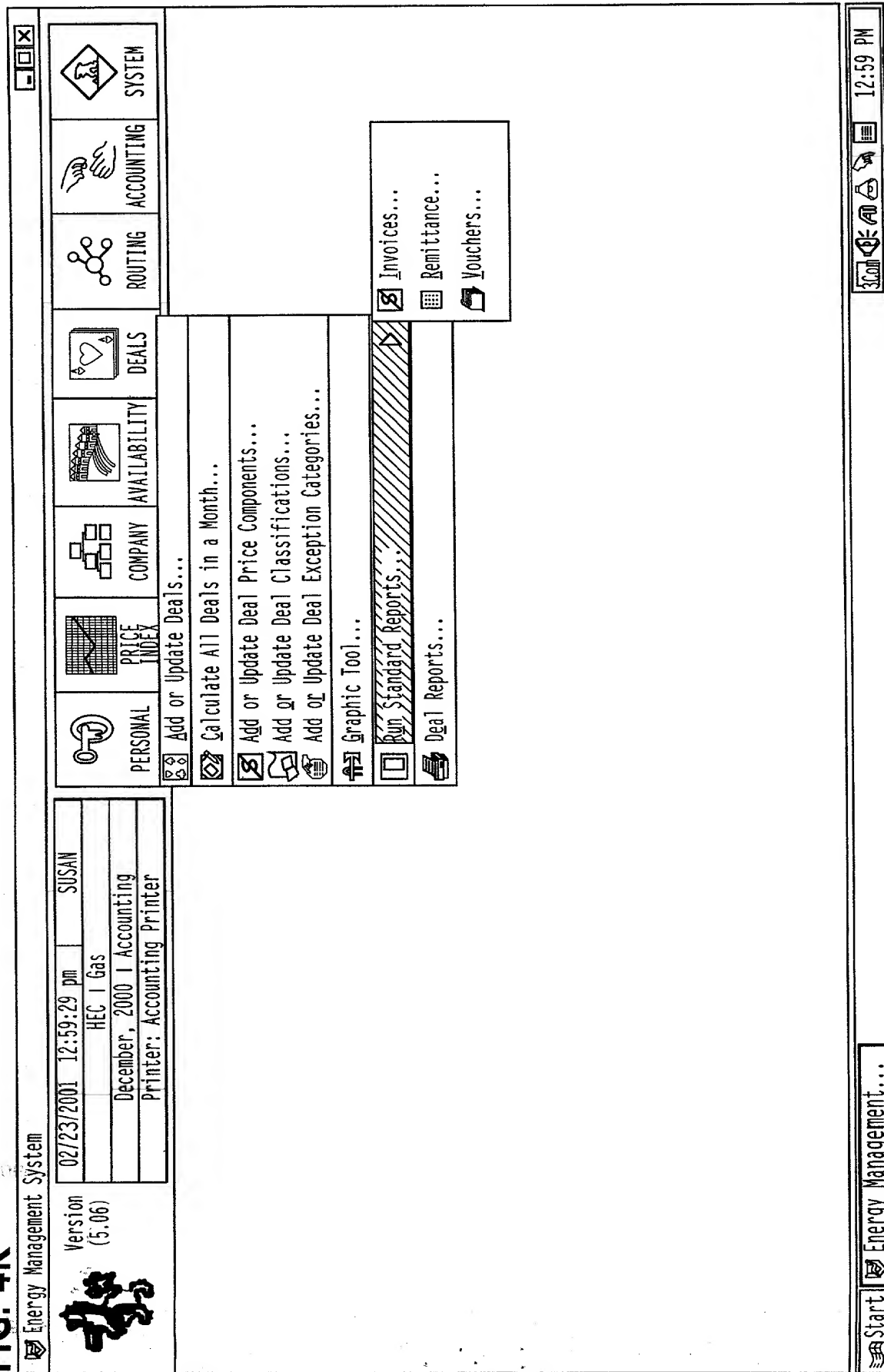


FIG. 4L

Energy Management System

Version (5.06)

02/23/2001 01:01:10 pm SUSAN

HEC I Gas

December 2000 I Accounting

Deal Details - (Change)

Deal ID: 56028 Description: 12/23-31 3 TEC

Product: Gas Service: Marketing

Month: December / 2000 Status: (Accounting Phase) Start Date: 12/23/2000

Contract... 3TEC Energy Corporation Thru Date: 12/31/2000

3TEC OIL & GAS PURCHASE Status: Created Confirm Report

Rollover Rules Correspondance Ownership Interests Financial Overrides

General Volumes Prices Calculation Results Audit Information

Their Contact... Janna Calhoun, 713-821-7107

Our Contact... Leslie Vandagriff, 214-954-1430

1-griff@highlandenergy.com

Description: \$5.89\*MANUAL NB.99

Comments:

Due:

Classifications

Deal Type: 3rd Party

Vol. Volatility: Baseload

Price Period: Spot

Interruptable: IT

☐ Accounting Use Only?  
 (ie. No Invoices or Remittance Reports)

☐ Suppress Volume Calculations?

☐ Park or Loan Deal?

All information relevant to this particular deal is shown on this screen. You have the option of directly changing this information (dependent on status of the month).

OK Help Cancel

Start Energy Management... 1:01 PM

60856860

FIG. 4M

02/23/2001 12:59:49 pm SUSAN

HEC I Gas

December, 2000 I Accounting

Printer: Accounting Printer

PERSONAL

PRICE INDEX

COMPANY

AVAILABILITY

DEALS

ROUTING

ACCOUNTING

SYSTEM

Route Volume...

Define Legs...

Leg History (Monthly Rates)...

Leg Daily Rates...

Pipes/Fields...

Meters/Wells...

Routing Reports...

Preferences...

☐ Propagate to End of Month?  
☒ Auto Adjust Changes?

Start

Energy Management...

12:59 PM

FIG. 4N

Energy Management System  
Route Volume

December 2000

Sun

Mon

Tue

Wed

Thu

Fri

Sat

3

4

10

17

24

31

5

11

18

25

6

12

19

26

7

13

20

27

8

14

21

28

9

15

22

29

1

16

23

30

2

9

16

23

30

Today: 02/23/2001

CGT - Columbia Gulf Transmission

Which Volumes?  
☒ Nominations  
☐ Actuals

☐ Show Outstanding Balances Only?

Month Status: Accounting

Receipt Side Order  
Meter/Well

Right click any of the lists below to see other options.

2

21

2

Area	Meter/Well	Desc.	Hop	Received	Balan
4012		Paradis )ERACELAND	0	1,981.00	0.0
4039		VALENTINE	0	137.00	0.0
4164		WM267A	0	498.00	0.0
4164		WM267A	0	15,779.00	0.0
474		CENTERVILLE	2	99.00	0.0
481		SEA ROBIN	3	2,079.00	0.0
592		GARDEN CITY PLANT	2	6,000.00	0.0
592		GARDEN CITY PLANT	2	700.00	0.0
P2046107		Highland Mainline Pool	0	0.00	0.0
P2046107		Highland Mainline Pool	0	1,969.00	0.0
P3046107		HIGHLAND ONSHORE POOL	0	0.00	0.0
P3046107		HIGHLAND ONSHORE POOL	0	0.00	0.0

Area Meter/Well Desc. Hop Received Balan

0.0

2

0

7

Available Transport Pool/Tank Points

Available Sale Point(s)

Pipe...	Area	Meter/Well	Desc.	Contract	F-Perc.	T-Rate
CGT		P2046107	Highland Mainli	2	Sales P	219.00
CGT		P2046107	Highland Mainli	2	Sales P	1,750.00

Pipe...	Area	Meter/Well	Desc.	Balance	Delivered	S-Comp
CGT		P2046107	Highland	0.00	219.00	HEC
CGT		P2046107	Highland	0.00	1,750.00	ENROL

Start Energy Management... 1:22 PM

FIG. 40

FIG. 40

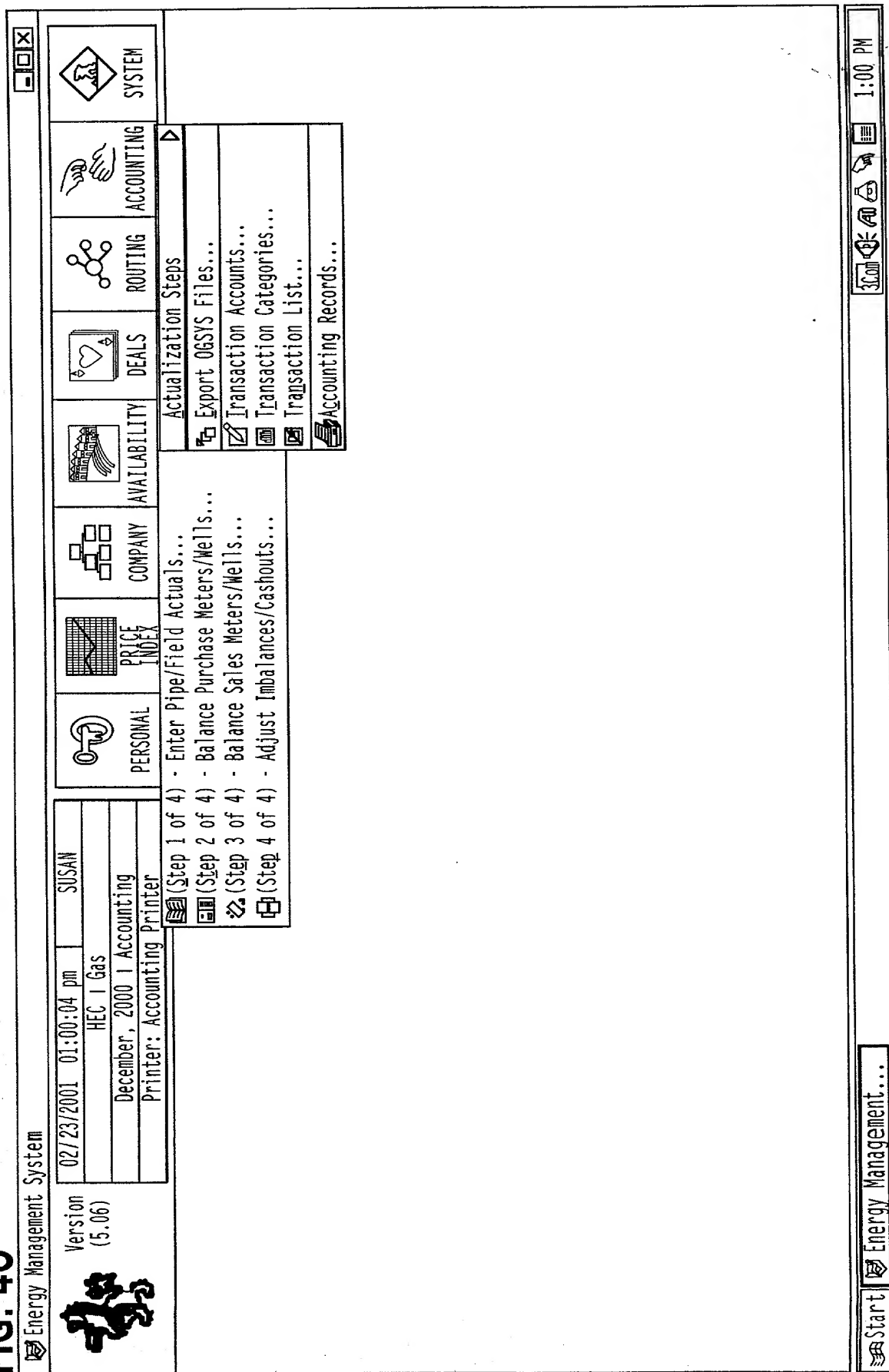


FIG. 4P

Energy Management System  
Enter Pipe/Field Actuals

Month: December / 2000  
Type: Purchases  
(Accounting Phase)  
Lookup By: ☐ Pipe ☐ Company  
CGT  
Columbia Gulf Transmission

Volume Allocation  
☒ MMBTU ☐ MCF  
☒ Auto Allocate Volume ☐ Use Volume Entered  
Vol: 0 Fctr: 1.000000  
From: 1 Thru: 31  
Post Post Prop Match Noms

Meter/Well	Description	Deal	Act.?	Actuals	Company
4012	Paradis (ERACELAND)	55105	<input checked="" type="checkbox"/>	59,751.00	3TECENERC
4039	VALENTINE	65220	<input checked="" type="checkbox"/>	4,214.00	TOMBROWN
4164	WM267A	65050	<input checked="" type="checkbox"/>	41,083.00	CHEIFTAIN
4164	WM267A	65370	<input checked="" type="checkbox"/>	392,909.00	CHEIFTAIN
P2046107	High and Mainline Pool	64872	<input checked="" type="checkbox"/>	1,934.00	HEC
P3046107	HIGHLAND ONSHORE	64872	<input checked="" type="checkbox"/>	0.00	HEC
P3046107	HIGHLAND ONSHORE	65029	<input checked="" type="checkbox"/>	0.00	HEC
P3046107	HIGHLAND ONSHORE	65753	<input checked="" type="checkbox"/>	30,000.00	AQUILANER
P3046107	HIGHLAND ONSHORE	65754	<input checked="" type="checkbox"/>	3,090.00	AQUILANER

Meter/Well  
Navigation: < << < > >> > >>  
Print & Help

Deal

Nom

Actual

Dec 01

1.981.00

1.941.00

Dec 02

1.981.00

1.927.00

Dec 03

1.981.00

1.927.00

Dec 04

1.981.00

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Dec 05

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Dec 06

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Dec 07

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Dec 08

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Dec 26

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Dec 27

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1.927.00

Dec 28

1.981.00

1.927.00

You have the option of either entering the daily actual volumes directly next to their respective day (right side list) OR to use the volume allocation panel (right center of the window).  
Pipe/Field and Meter/Well actual totals at bottom should match your

Right click the meter/well grid to see other options


Help...

Exit

Start Energy Management...

1:25 PM

**FIG. 4Q**

		02/23/2001 1:22:21 pm SUSAN HEC I Gas December, 2000 I Accounting Printer: Accounting Printer		Energy Management System				
Version (5.06)	PERSONAL	PRICE INDEX	COMPANY	AVAILABILITY	DEALS	ROUTING	ACCOUNTING	SYSTEM
Monthly Status... Monthly Status Exception Reason Codes... Producer Control Center Messages... Locations... Processing Code Types... Printers... Application Images...								
Setup Users... Setup System Functions... Update User Security Rules...								
Security Management Reports... System Reports... Standard Report Types... Help... About the Energy Management System...								

6036360

WASP Calculation Diagram (1 of 2)

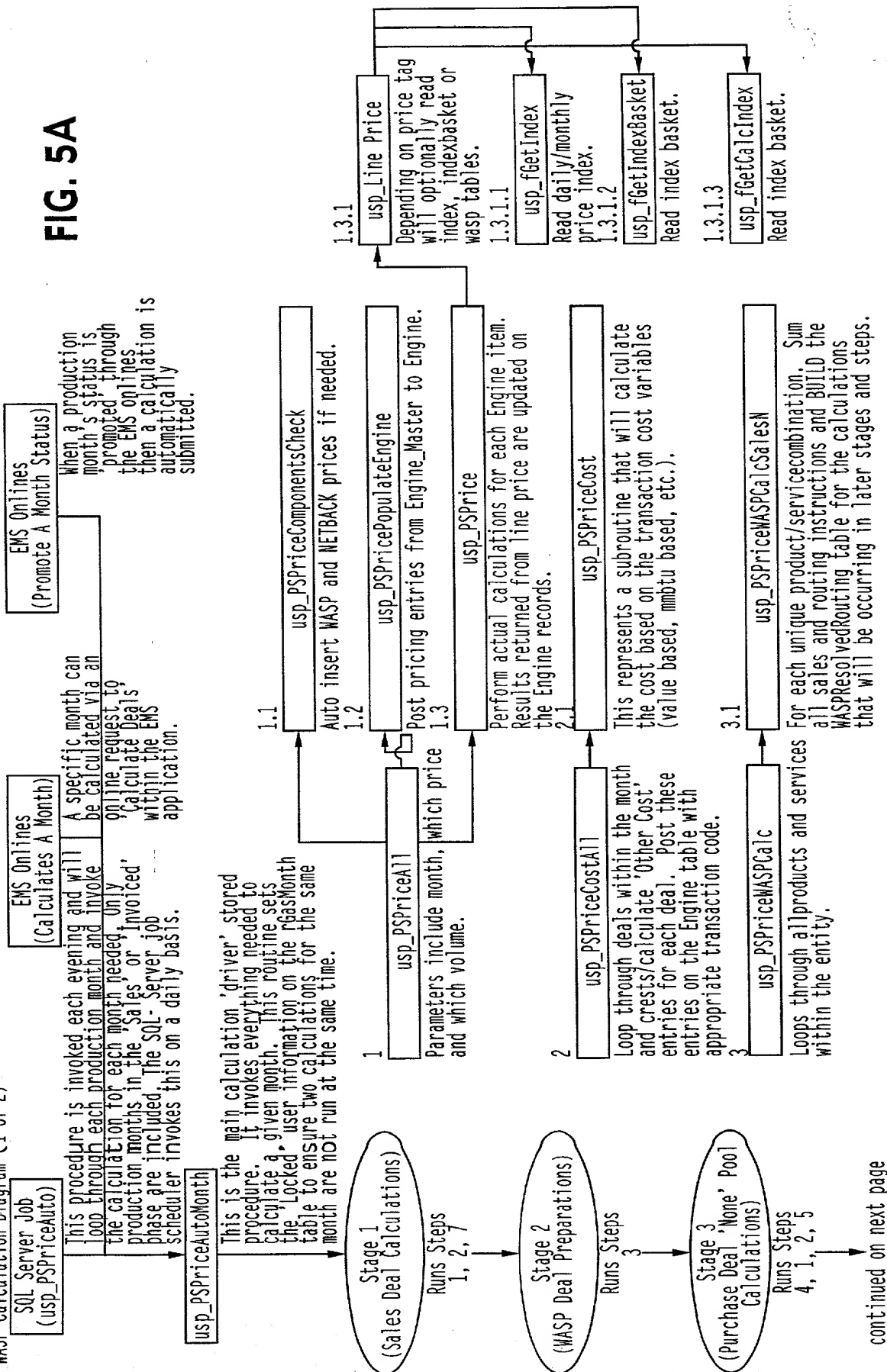
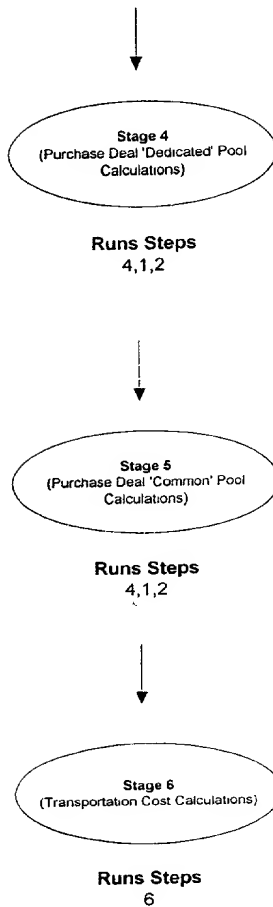


FIG. 5A

## WASP Calculation Diagram (2 of 2)

continued from previous page



4

usp\_PSPPriceWaspCalcResolveDriver

This procedure will loop through each product and service and invoke the resolve routines for each unique combination

4.1

usp\_PSPPriceWaspCalcResolveN

This procedure invokes the iterative process which loops back from all the sales points to originating purchase points

4.1.1

usp\_PSPPriceWaspCalcResolveSalesN

HIGHLY ITERATIVE process that attempts to track all sales meters back to original purchase meters. The WASPResolvedRouting table is the primary table utilized here

5

usp\_PSPPriceWASPDiveOutProceedsN

Move any of the financial proceeds that were overridden to their respective deal OR WASP meters. This takes the profit or (loss) and makes the adjustments. Only 3rd party deals can have their proceeds 'divided'. The primary table updated through this process is the WASPResolvedRouting table

6

usp\_PSPPriceTransportAll

This routine will create all of the GasInv 'PriceType=3' inventory records and associated Engine (calculated) results. These system generated transport costs include transport, gathering, fuel and pwr

7

usp\_PSPPriceAnyNewInvoicesNeeded

This routine only gets executed if the production month status is set to 'Invoiced'. This routine will ensure that an invoice number gets assigned if no number currently exists (for new sales entries introduced during the actualization phase)

FIG. 5B